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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622,199	07/18/2003	Guy Eden	SLA1375	4040
7590 Gerald W. Maliszewski P.O. Box 270829 San Diego, CA 92198-2829		01/02/2008	EXAMINER CRUZ, IRIANA	
			ART UNIT 2625	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/622,199	Applicant(s) EDEN ET AL.	
	Examiner Iriana Cruz	Art Unit 2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 November 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,4-6,8,9,11,14-17 and 19-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 21 and 22 is/are allowed.
- 6) ☒ Claim(s) 1,4,8,9,11,14,19 and 20 is/are rejected.
- 7) ☒ Claim(s) 5-6 and 15-17 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 29 November 2007 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. **Claims 1 and 11** have been amended to include limitations of previously dependent claims 7 and 18, respectively. However, upon further consideration, a new ground(s) of rejection is made in view of different interpretation of the previously applied reference.

Claims 1 and 11 recite "establishing a library of executable programs selected from the group including ..." this could be referring that the method could be performed with only having at least one of the executable programs given present. Reference Gauthier'205 discloses an executable program that execute a program to initiate additional document processing because when a control task identifies a print code on the document the control task interrupts to interpreter to determine whether the data to be printed is variable data for further processing of the document (See Paragraphs 11 and 12).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. **Claims 1, 4, 11 and 14** are rejected under 35 U.S.C. 102(e) as being unpatentable by Gauthier (US Publication Number 2002/0122205 A1).

Regarding **Claim 1**, Gauthier'205 discloses a method for controlling a printer device responsive to a document's print content (i.e., the variable data contains the content of a print document. A method control that can identify the variable data and depending on it executes a command could be a control method responsive to the variable data ((print content document)). See Paragraphs 11-15), the method comprising: establishing a library of vocabulary terms (i.e., when a graphic state ((graphic state can be referred as text or graphic/symbol)) is identified in the variable data this graphic state is reserved in an internal database/library for later use. See Paragraphs 10, 12 and 14-15); establishing a library of executable programs selected from the group including sending reports of the document to a recipient, blocking the document print process, logging the document print process, updating a database, archiving the document, executing a program to initiate additional document processing, and executing a plurality of programs to initiate additional document processing (i.e., each graphic state ((text or graphic/symbol)) has a bit map in correspondence which is saved in a library ((internal data base)). The page description code program is called when a graphic state is identified in the variable data, to execute the corresponding code that generates the bit map information corresponding to the graphic state ((text or graphic/symbol)) identified. The page description code programs for each graphic state ((text or graphic/symbol)) found is reserved in a library ((internal data base)). See Paragraphs 11-15 and response to arguments); mapping between the library of vocabulary terms and the library of executable programs (i.e., every time a graphic state ((text or graphic/symbol)) is identified on the variable data it is found on the library and

Art Unit: 2625

mapped to its executable page description code program found in the executable program library ((internal data base)). See Paragraphs 11-15); accepting a document for printer processing (i.e., a document ((image containing text and/or graphics data)) is ready to be sent to print and the variable data is created to be printed. See Paragraphs 15 and 22-23); classifying print content in the document by matching print content in the document to vocabulary terms in the library (i.e., every time a graphic state ((text or graphic/symbol)) is identified ((classified)) on the variable data it is found on the library previously created. See Paragraphs 11-15); and, executing a program in response to the print content classification by selecting an executable file in response to mapping between matched vocabulary terms and executable programs (i.e., every time a graphic state ((text or graphic/symbol)) is identified on the variable data it is found on the library and mapped to its executable page description code program found in the executable program library ((internal data base)). See Paragraphs 11-15).

Regarding **Claim 4**, Gauthier'205 discloses a method that establishes a library of vocabulary terms includes establishing a library of vocabulary terms selected from the group including key words, symbols, word patterns, and data patterns (i.e., when a graphic state ((graphic state can be referred as text or graphic/symbol)) is identified in the variable data ((print document content)) this graphic state is reserved in an internal database/library for later use. The graphic state could be text graphic/images or codes. Key words, data patterns and word patterns can be interpreted as text, and symbols can be images. See Paragraphs 10, 12 and 14-15).

Regarding **Claim 11**, Gauthier'205 discloses a printer device control system responsive to the document's print content (i.e., the variable data contains the content of a print document. A method control that can identify the variable data and depending on it executes a command could be a control method responsive to the variable data ((print content document)). See Paragraphs 11-15), the system comprising: an interpreter having an input to accept a print driver output file and an output to supply an interpreted document for printer processing (i.e., the document print content ((variable data)) is sent to the interpreter and after processing send to printing. In order to receive and send there has to be an input and output. See Paragraphs 23-24); a library of vocabulary terms with an interface connected to a classifier interface (i.e., when a graphic state ((graphic state can be referred as text or graphic/symbol)) is identified in the variable data this graphic state is reserved in an internal database/library for later use. In order to classify/identify the content of the document/variable-data a connection between the classifier and the data. See Paragraphs 10, 12 and 14-15); a library of executable programs with an interface connected to the classifier interface, the executable programs selected from the group including sending reports of the document to a recipient, blocking the document print process, logging the document print process, updating a database, archiving the document, executing a program to initiate additional document processing, and executing a plurality of programs to initiate additional document processing (i.e., every time a graphic state ((text or graphic/symbol)) is identified on the variable data it is found on the library and mapped to its executable page description code program found

Art Unit: 2625

in the executable program library ((internal data base)). In order to classify/identify the content of the document/variable-data a connection between the classifier and the data. See Paragraphs 11-15 See response to argument); a mapping library cross-referencing vocabulary terms with executable files, having an interface connected to the classifier interface (i.e., every time a graphic state ((text or graphic/symbol)) is identified on the variable data it is found on the library and mapped to its executable page description code program found in the executable program library ((internal data base)). See Paragraphs 11-15); and, a classifier having an interface to accept the interpreted document (i.e., the document print content ((variable data)) is sent to the interpreter and after processing send to printing. In order to receive and send there has to be an input and output. See Paragraphs 23-24), the classifier classifying print content in the interpreted document, accessing the library of vocabulary terms to match print content in the interpreted document to vocabulary terms in the library, and accessing the mapping library to select an executable file from the library of executable programs, in response to matching print content to a vocabulary term from the library of vocabulary terms selecting a program for execution in response to the print content classification (i.e., every time a graphic state ((text or graphic/symbol)) is identified ((classified)) on the variable data it is found on the library previously created. Every time a graphic state ((text or graphic/symbol)) is identified on the variable data it is found on the library and mapped to its executable page description code program found in the executable program library ((internal data base)). See Paragraphs 11-15).

Regarding **Claim 14**, Gauthier'205 discloses a wherein the library of vocabulary terms includes terms selected from the group including key words, symbols, word patterns, and data patterns (i.e., when a graphic state ((graphic state can be referred as text or graphic/symbol)) is identified in the variable data ((print document content)) this graphic state is reserved in an internal database/library for later use. The graphic state could be text graphic/images or codes. Key words, data patterns and word patterns can be interpreted as text, and symbols can be images. See Paragraphs 10, 12 and 14-15).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claims 8-9 and 19-20** are rejected under 35 U.S.C. 103(a) as being unpatentable over Gauthier (US Publication Number 2002/0122205 A1) in view of Hull et al. (US Patent Number 5,978,477).

Regarding **Claim 8**, Gauthier'205 fails to show accepting a bitmap document; performing optical character recognition (OCR) of the bitmap document; generating text strings; and, wherein accepting a document for printer processing includes accepting the generated text strings.

Hull'477 shows accepting a bitmap document (i.e., the format of the received document is converted to a desired format for storing. See Column 7, Lines 47-54);

Art Unit: 2625

performing optical character recognition (OCR) of the bitmap document (i.e. optical character recognition is used to convert the received document format to text. See Column 7, Line 54-63); generating text strings (i.e., the OCR creates plain text for further processing of document ((indexing)) where keyword/text strings are saved to perform full text searching for retrieval. See Column 7, Line 55-66); and, wherein accepting a document for printer processing includes accepting the generated text strings (i.e., the document is accepted for indexing/processing with the generated archived keywords ((text strings)) for full text searching needed for later document retrieval/processing. See Column 7, Line 60-67).

Having the system of Gauthier'205 and then given the well-established teaching of the Hull'477, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the system of Gauthier'205 as taught by the Hull'477, since it facilitates full text searching in documents as suggested in reference Hull Column 7, Lines 60-63.

Regarding **Claim 9**, Gauthier'205 fails to shows the control method processing the document using a process selected from the group including scanning, faxing, archiving, transmitting, and paper copy reproduction.

Hull'477 shows the control method processing the document using a process selected from the group including scanning, faxing, archiving, transmitting, and paper copy reproduction (i.e., This process could be implemented in a scanner, copy machine or faxing machine. See Column 2, Line 57-67 and Column 6, Line 58-64 in reference Hulls).

Art Unit: 2625

Having the system of Gauthier'205 and then given the well-established teaching of the Hull'477, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the system of Gauthier'205 as taught by the Hull'477, since it improves the document management and processing of documents by adding a diversity of input ways for processing as suggested in reference Hull Column 2, Lines 55-65 and Column 6, Line 58-64.

Regarding **Claim 19**, Gauthier'205 fails to show a system with an optical character recognition (OCR) unit having an input to accept a bitmap document and an output to supply text strings generated from performing an OCR operation on the bitmap document; and, wherein the print driver accepts the generated text strings for print processing.

Hull'477 shows a system with an optical character recognition (OCR) unit having an input to accept a bitmap document (i.e., the format of the received document is converted to a desired format for storing/processing and the OCR creates plain text for further processing of document ((indexing)) where keyword/text strings are saved to perform full text searching for retrieval. See Column 7, Lines 47-66); and an output to supply text strings generated from performing an OCR operation on the bitmap document; and, wherein the print driver accepts the generated text strings for print processing (i.e., the document is accepted for indexing/processing with the generated archived keywords ((text strings)) for full text searching needed for later document retrieval/processing. See Column 7, Line 60-67).

Having the system of Gauthier'205 and then given the well-established teaching of the Hull'477, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the system of Gauthier'205 as taught by the Hull'477, since it facilitates full text searching in documents as suggested in reference Hull Column 7, Lines 60-63.

Regarding **Claim 20**, Gauthier'205 fails to shows a system with a print processor having an input to accept the print driver output and an output to supply a document processed using a process selected from the group including scanning, faxing, archiving, transmitting, and paper copy reproduction.

Hull'477 shows a system with a print processor having an input to accept the print driver output and an output to supply a document processed using a process selected from the group including scanning, faxing, archiving, transmitting, and paper copy reproduction (i.e., This process could be implemented in a scanner, copy machine or faxing machine. See Column 2, Line 57-67 and Column 6, Lines 58-64).

Having the system of Gauthier'205 and then given the well-established teaching of the Hull'477, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the system of Gauthier'205 as taught by the Hull'477, since it improves the document management and processing of documents by adding a diversity of input ways for processing as suggested in reference Hull Column 2, Lines 55-65 and Column 6, Line 58-64.

Have the system of Gauthier'205 and then given the well-established teaching of the Hull'477, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the system of Gauthier'205 as taught by the Hull'477, since it facilitates full text searching in documents as suggested in reference Hull Column 7, Lines 60-63.

Regarding **Claim 20**, Gauthier'205 fails to shows a system with a print processor having an input to accept the print driver output and an output to supply a document processed using a process selected from the group including scanning, faxing, archiving, transmitting, and paper copy reproduction.

Hull'477 shows a system with a print processor having an input to accept the print driver output and an output to supply a document processed using a process selected from the group including scanning, faxing, archiving, transmitting, and paper copy reproduction (i.e., This process could be implemented in a scanner, copy machine or faxing machine. See Column 2, Line 57-67 and Column 6, Lines 58-64).

Have the system of Gauthier'205 and then given the well-established teaching of the Hull'477, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the system of Gauthier'205 as taught by the Hull'477, since it improves the document management and processing of documents by adding a diversity of input ways for processing as suggested in reference Hull Column 2, Lines 55-65 and Column 6, Line 58-64.

Allowable Subject Matter

6. **Claims 5-6 and 15-17** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The following is a statement of reasons for the indication of allowable subject matter: none of the references, either singularly or in combination teach a method controlling a printer device responsive to a document's print document where the method generates a printer driver output file; interpreting the printer driver output file into a rasterized image; wherein matching print content in the document to vocabulary terms in the library includes: parsing the rasterized image into tokens; identifying tokens that represent data to be printed; buffering the data to be printed; and, examining the buffered data for vocabulary terms.

7. **Claim 21 and 22** are allowed. The following is an examiner's statement of reasons for allowance: these claims have been amended like recommended in previous office actions objection to allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iriana Cruz whose telephone number is (571) 270-3246. The examiner can normally be reached on Monday-friday 7:30am to 4:00pm.

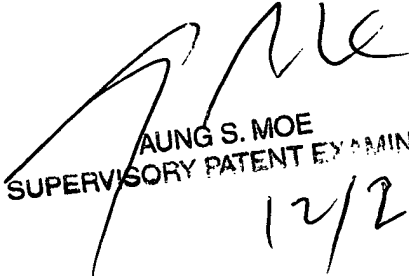
Art Unit: 2625

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Aung Moe can be reached on (571) 272-7314. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Iriana Cruz
Examiner
Art Unit 2625

December 19, 2007


AUNG S. MOE
SUPERVISORY PATENT EXAMINER
12/21/07